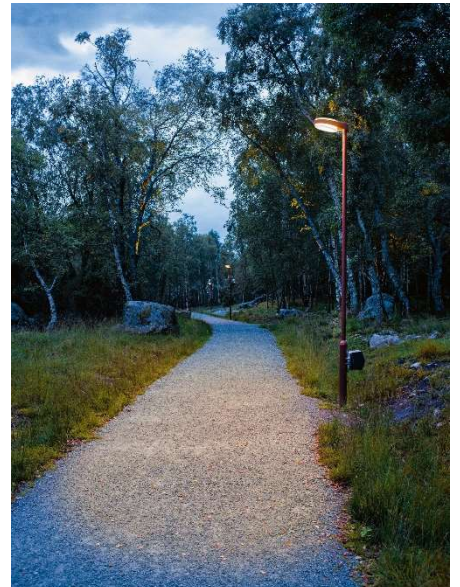# louis poulsen

# Environmental Product Specifications

— LP Capsule

# Product description

– Two variants to provide either round symmetrical and
  asymmetrical light distribution.

– Driver and electronic control components in fixture head.

– LED board is replaceable.

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# Product info

## Mounting

Pole dimension: Ø 60mm or Ø 76mm. Installation cable: DAC (DALI+CLO) versions: 4m 5x1mm² (Class I) or 4m 2x1,5mm² (Class II). DPC (night dim/CLO) versions: 4m 3x1,5mm² (Class I) or 4m 2x1,5mm² (Class II). Terminal block: 1x5x2.5mm². Terminal block positioning: In fixture head. LED Driver: In fixturehead.

## Finish

Aluminium coloured with textured surface, powder coated.

## Light source

LED 3000K 17W, Lumen: 1609

## Sizes and weights

Width x Height x Length (mm)
355 x 175 x 488 Max 8.1 kg

## Class

Ingress protection IP66. Electric shock protection I w. ground, II w/o ground. IK08.

# Product variants

| Mounting | Light source | Lumen | Class | Light technique | Lighting control |
|----------|--------------|-------|-------|-----------------|------------------|
| Ø 60 pole | LED 3000K 17W | 1609 | I | ASYM | Dali + clo dac hi |
| Ø 76 pole | LED 3000K 32W | 1691 | II | SYMMETRIC | Dali + clo dac li |
| | LED 4000K 17W | 1724 | | | Nightdim + clo dpc hi |
| | LED 4000K 32W | 1812 | | | Nightdim + clo dpc li |
| | | 2933 | | | Sr zhaga ct clo hi |
| | | 3062 | | | |
| | | 3143 | | | |
| | | 3281 | | | |

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# Material information

### RoHS

This product is compliant with the requirements contained in the European Directives, RoHS Directive 2011/65 and 2015/863.

### REACH candidate List

To the best of our knowledge and based on the information provided by our suppliers, the product does not contain more than 0.1 percent (in weight terms) of any deliberately added SVHCs.

### Packaging

The product is packaged in a plastic bag with a cardboard. The packaging material can be easily sorted and treated in waste recycling channels. The packaged product is delivered on a returnable wooden pallet.

### Recycled raw material

The aluminium material is sourced from min. 90% authentic, refined, recycled aluminium. Cardboard is made from min. 75% recycled fibre mass. Additional cardboard material comes from an FSC approved sources.

### Recycling

We encourage everyone to take care of the product - even at the end of the product's lifetime. We also offer spare parts, so that we can extend the product lifetime even further.

The luminaires contain valuable materials. They therefore have to be decommissioned and dismantled for reuse of materials in other products.

This product is designed so that 100% of the product can be disassembled and reused.

Louis Poulsen is part of ELRETUR which ensures that electronic waste (WEEE) across of Europa is reused.

This product must be treated as electronic waste:

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# Material list

| Positions number | Part description | Included substances and materials | Country of origin | Weight% (of the entire product) |
|---|---|---|---|---|
| A | Aluminium parts | Die-casted aluminium | DK - Denmark | 58,6% |
| A | Painting | Powder coating | DE – Germany | 1,8% |
| B | Bottom w. reflector | PC | DK – Denmark | 10,0% |
| C | Top diffusor | PMMA | DK – Denmark | 6,4% |
| D | Screws and washers | Stainless steel | CN – China | 0,7% |
| E | Plastic parts | PA | DK – Denmark | 0,1% |
| F | Screws | Stainless steel | TW – Taiwan | 0,8% |
| G | Gasket | Silicone | IT – Italy | 1,1% |
| H | Stuffing box | EPDM | SE – Sweden | 0,1% |
| I | Washer | Stainless steel | DE – Germany | 0,2% |
| J | Terminal | Variety of components | DE – Germany | 0,2% |
| K | Driver | Variety of components | US – United States | 2,5% |
| L | Electric mountingplate | Aluzinc | DK – Denmark | 3,6% |
| M | LED Board | Variety of components | KR – Korea | 1,6% |
| N | Thread plate | Stainless steel | TW – Taiwan | 0,4% |
| O | Cord and wires | Variety of components | IT – Italy | 7,0% |
| P | Labels and instructions | Paper | DK – Denmark | 0,1% |
| Q | Inserts | EPS | DK – Denmark | 4,3% |
| R | Plastic bags | LDPE | LT – Lithuania | 0,5% |
| | | | | **100%** |

# Life Cycle Screening

## Background

Our carbon footprint is the total quantity of greenhouse gas (GHG) emissions associated with the full lifecycle of the product. This includes the impacts associated with raw materials and emissions from manufacturing (materials and resources), transport, in use (cleaning) impacts and impacts at end of life (reuse, recycling, incineration, landfill etc.).

## Basis of calculation

This is calculated according to the EU Product Environmental Footprint and presented according to ISO 14067 (Carbon footprint of products).

## EU Product Environmental Footprint (PEF)

The PEF methodology is a new standard, introduced by the European Commission.
The mission: to strengthen the (European) market for green alternatives and ensure that environmental impact is transparently assessed.

## Use stage

The product use stage is calculated for a lifetime of 15 years with 1,000 hours of use each year in Europa, as required by the reference in PEF.

The electricity is based on the European energy mix, with data from: the European Environment Agency Greenhouse gas emission intensity of electricity generation.

## Transport

1,000 km of transport is calculated for the product from factory to end customer as required by the reference in PEF.

## Uncertainties associated with these calculations

Calculation of emission levels is associated with uncertainty. This means that results may vary from actual levels. By using the PEF method, uncertainties are embedded in the Life Cycle Screening result using statistical methods.

# Life Cycle Screening results

**Product that has been calculated as a reference for the product family:**
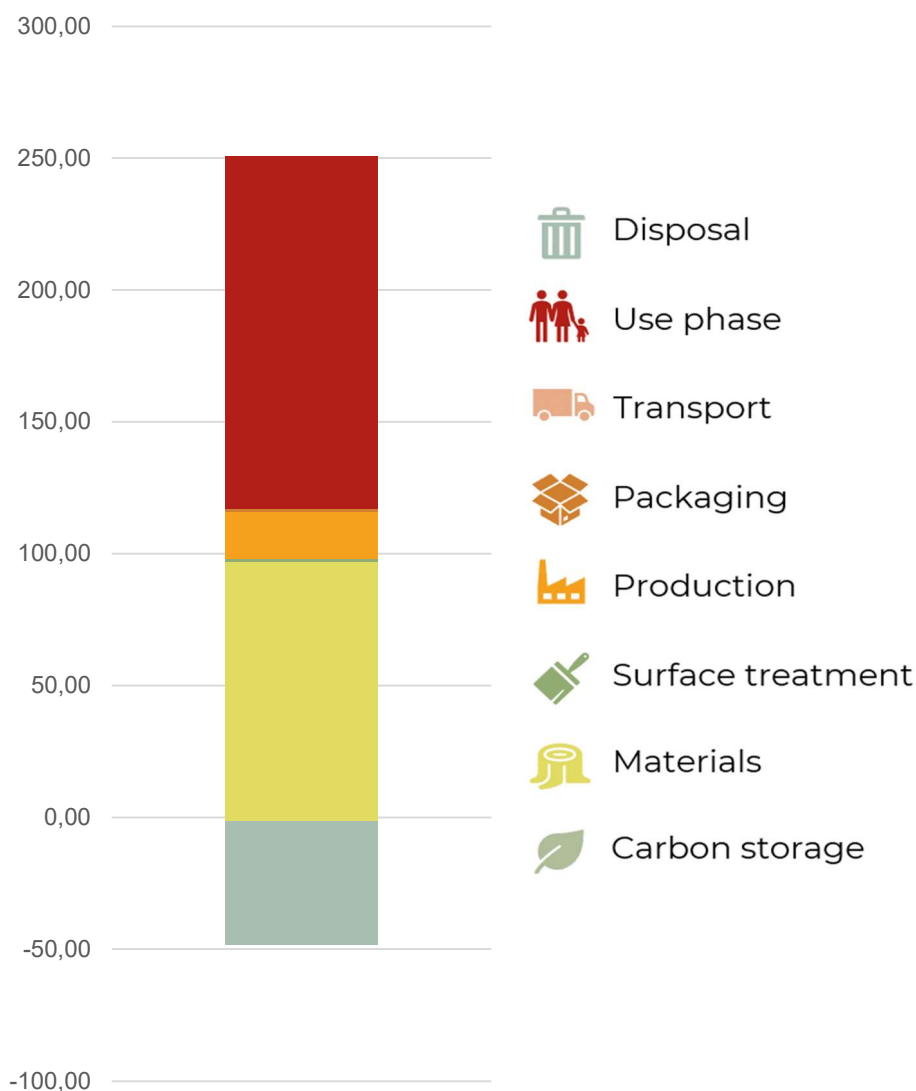
LP Capsule, LED 3000K, 17W

| **Production of the product** | **Production of the product and use stage** |
| --- | --- |
| Total climate emission: | Total climate emission: |
| 75 KG CO2-e | 200 KG CO2-e |

**Carbon stages**



Legend:
- Disposal
- Use phase
- Transport
- Packaging
- Production
- Surface treatment
- Materials
- Carbon storage

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## Main emission sources *(pr material group)**

| Group | Total impact |
|---|---|
| Solid Wood | **0,00** kg CO2-e |
| Plastic | **17,92** kg CO2-e |
| Cover | **0,00** kg CO2-e |
| Standard Components | **0,00** kg CO2-e |
| Electronics | **23,98** kg CO2-e |
| Metal | **24,05** kg CO2-e |
| Packaging | **1,22** kg CO2-e |
| Upholstery | **0,00** kg CO2-e |
| Wood Based Board | **0,00** kg CO2-e |
| Surface Finish & Chemicals | **6,08** kg CO2-e |
| Glass / Stone / Ceramics | **0,00** kg CO2-e |
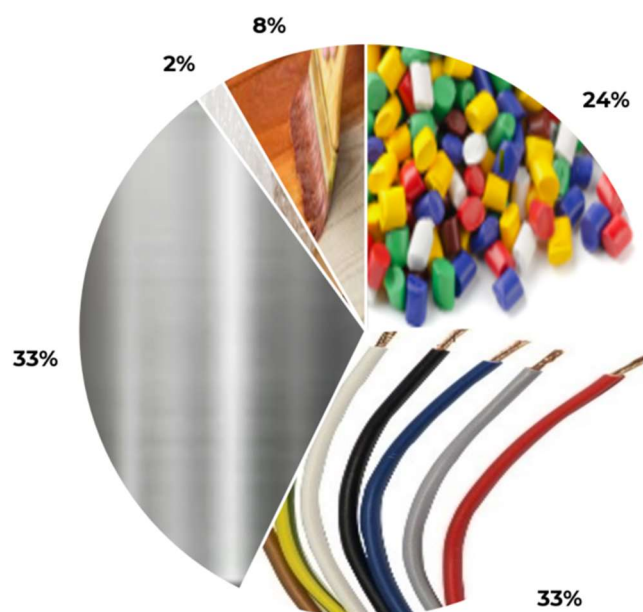


The values presented here represent total emissions per material group (incl. material, production, transport, waste, CO2e uptake)

## Main emission sources *(pr element)**

| Element | Material | Total impact |
|---|---|---|
| Electricity | 0 | **130,93** kg CO2-e |
| ALUMINIUM PARTS | Alu. cast | **21,06** kg CO2-e |
| LED BOARD BAELUX 3K SYMMETRIC | Electronic board few holes cm2 | **15,81** kg CO2-e |
| BOTTOM W. REFLECTOR SHADE LP CAPSULE | PC, molded | **10,30** kg CO2-e |
| TOP DIFFUSOR LP CAPSULE ¶ | Acrylic (PMMA), molded | **6,13** kg CO2-e |
| POWDER G3 ALU COLOUR, STRUC. (162) | Or kg powder consumed | **6,08** kg CO2-e |
| DRIV TRID LCO 40W 200–1050mA 64V o4a NFC | Power supply with cables + connectors kg | **5,18** kg CO2-e |
| CORDS & WIRES | Electric cable kg | **2,70** kg CO2-e |
| ELECTRIC MOUTINGPLATE LP CAPSULE | Alu. sheet, punched | **2,18** kg CO2-e |
| Cleaning & maintenance | Cleaning, maintenance & Product Loss | **1,50** kg CO2-e |
| GASKET LP CAPSULE | Silicone rubber pressed | **1,22** kg CO2-e |
| **Total impact from Waste** | | **9,14** kg CO2-e |
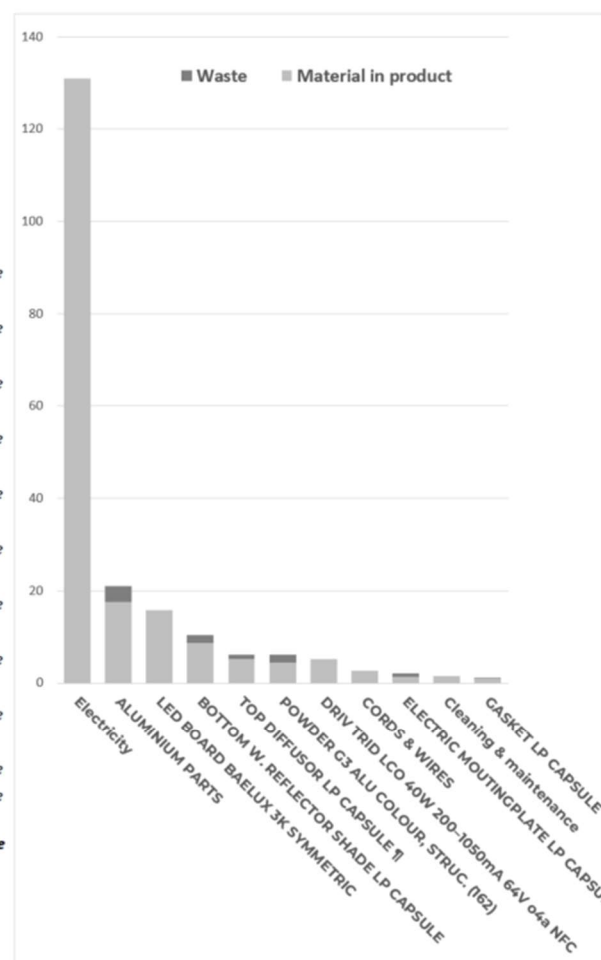


The values presented here represent total emissions per element (incl. material, production, transport, waste, CO2e uptake)